

Membrane Seal Development, Characterization, and Testing

Project Lead

Pacific Northwest
National Laboratory
(PNNL)
Richland, WA

Description





The purpose of this project is to develop functional ceramic materials that will lead to more efficient utilization of fossil fuels. This project will evaluate the stabilities of materials and interfaces in solid oxide fuel cells and develop ion-conducting ceramics for oxygen separation from air.

Duration: 10/1/96 - 9/30/01

Accordingly, the project will develop materials for increased efficiency, longer lifetimes, and lowered cost of manufacture of solid oxide fuel cells and ceramic gas separation membranes

Alternative electrolyte and electrode materials that would enable operation at reduced temperature and/or at higher efficiencies would be developed.

Product Support Areas

Gasification Technologies	Combustion Technologies	Sequestration	Environmental & Water Resources	Advanced Turbine & Engines	Fuel Cells
					



Project: FEAA09
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